

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

LISTING OF CLAIMS:

1. – 4. (Canceled)

5. (Currently Amended) A mobile terminal comprising:

a communication unit operable to enable communicate ion over a first mobile communication network and a second mobile communication network; and

a control unit coupled with said communication unit, said control unit operable, when said mobile terminal is registered to said second mobile communication network, to monitor for determine if said mobile terminal to be is currently engaged in a voice communication over said second mobile communication network;

wherein said control unit is further operable to determine if monitor for a change in location of said mobile terminal has changed location;

said control unit is further operable to receive from said second mobile communication network, through said communication unit, a registration possibility indication of whether it is possible to register with said first mobile communication network; and

wherein said control unit, in response to a change in location of said mobile terminal, is further operable to determine if it is possible to register to said first mobile communication network, on the basis of a registration possibility indication receivable from said second mobile communication network with said communication unit; and

wherein said control unit is further operable, responsive to a change in location of said mobile terminal, to attempt to register to said first mobile communication network after confirmation by said control unit that only when said voice communication is not presently in progress, and confirmation by said control unit that when said registration possibility indication indicates that it is possible to register to said first mobile communication network.

6. (Currently Amended) The mobile terminal according to Claim 5, wherein said registration possibility indication receivable with said communication unit includes timing information indicative of a maximum number of times registration to said first mobile communication network is to be attempted, and said control unit is operable to attempt to register to said first mobile communication network based on the basis of said timing information.

7. (Previously Presented) The mobile terminal according to Claim 5, wherein said communication unit is operable to communicate voice communication or data communication, and said control unit is operable to attempt to register to said first mobile communication network for voice communication even when said communication unit is currently engaged in a data communication over said second mobile communication network.

8. (Previously Presented) The mobile terminal according to Claim 5, wherein said registration possibility information is only an indication to initiate communication with said first mobile communication network.

9. (Previously Presented) The mobile terminal according to Claim 5, wherein said mobile terminal is only registerable to said first mobile communication network when a user of said mobile terminal is an authorized user.

10. (Previously Presented) The mobile terminal according to Claim 5, wherein said registration possibility information comprises a limitation of registration with the first mobile communication network for only one of voice communication or data communication.

11. (Previously Presented) The mobile terminal according to Claim 5, wherein said first mobile communication network and said second mobile communication network are divided into a plurality of registration areas, and a changed location is a change from one registration area to another registration area.

12. (Previously Presented) The mobile terminal according to Claim 5, wherein said changed location is a change from a current radio area to another radio area, both of which are

included in one of said first mobile communication network or said second mobile communication network.

13. (Previously Presented) The mobile terminal according to Claim 5, wherein said changed location is a change from a current sector to a new sector within a radio area, wherein said radio area is included in at least one of said first mobile communication network or said second mobile communication network.

14. (Currently Amended) A communication system comprising:

a third generation first mobile communication network that includes a first location management device, wherein said first location management device is operable to manage location information received from of mobile terminals that opt to register [[ed]] to said first mobile communication network;

a second generation mobile communication network that includes a second location management device and a base station, said second location management device operable to manage location information received from of mobile terminals that elect to register [[ed]] to said second generation mobile communication network, and said base station positioned within said third generation first mobile communication network,

wherein said base station is operable to transmit, for receipt by a mobile terminal, registration possibility information indicating that it is possible for said mobile terminal to register to said third generation first mobile communication network; and

a management device coupled with said third generation first mobile communication network and said second generation mobile communication network, said management device operable to store location registration data correlated with a mobile terminal identifier for each of said mobile terminals,

said management device further operable to selectively update said location registration data in response to receipt from each of said mobile terminals of a notification that a respective mobile terminal previously opted for and completed of a current registration of said [[a]] respective mobile terminal to at least one of said first mobile communication network or said second mobile communication network.

15. (Previously Presented) The communication system of claim 14, wherein said management device is operable to store said location registration data correlated with a mobile terminal identifier in a management table.

16. (Previously Presented) The communication system of claim 14, wherein said management device is operable, in response to a request related to a specified mobile terminal, to specify a mobile communication network to which said specified mobile terminal is registered based on said stored location registration data correlated with a mobile terminal identifier.

17. (Previously Presented) The communication system of claim 14, wherein said management device is operable to receive data from said first mobile communication network when said notification is from a mobile terminal registered with said first mobile communication network, and said management device is operable to receive data from said second mobile communication network when said notification is from a mobile terminal registered with said second mobile communication network.

18. (Currently Amended) A communication system comprising:  
a first mobile communication network that includes a first location management device, wherein said first location management device is operable to manage location information of mobile terminals registered to said first mobile communication network;  
a second mobile communication network that includes a second location management device and a base station, said second location management device operable to manage location information of mobile terminals registered to said second mobile communication network, said base station is positioned within said first mobile communication network, wherein said base station is operable to transmit for receipt by a mobile terminal notification information indicating that it is possible to register to said first mobile communication network. The communication system of claim 14, wherein an interval of time between transmission of said registration possibility information by said base station is adjustable in accordance with a distance of said base station from a center of said first mobile communication network; and  
a management device coupled with said first mobile communication network and said second mobile communication network, said management device operable to store data

correlated with a mobile terminal identifier for each of said mobile terminals, said management device operable to selectively update said data in response to receipt, from each of said mobile terminals, of a notification of a current registration of a respective mobile terminal to at least one of said first mobile communication network or said second mobile communication network.

19. (Currently Amended) A location registration changing method comprising:
  - providing a mobile terminal operable to communicate over a first mobile communication network and a second mobile communication network;
  - registering said mobile terminal to said second mobile communication network;
  - monitoring with determining in said mobile terminal if for said mobile terminal to be is currently engaged in a voice communication over said second mobile communication network;
  - monitoring with determining in said mobile terminal if for said mobile terminal to has change[[d]] location;
  - determining in said mobile terminal, in response to a determined change in location of said mobile terminal, whether it is possible to register to said first mobile communication network on the basis of registration possibility information received from said second mobile communication network;
  - receiving registration possibility information from said second mobile communication network with said mobile terminal that indicates whether it is possible to register to said first mobile communication network;
  - transmitting from said mobile terminal, in response to a change in location of said mobile terminal, transmitting to said first mobile communication network, a notification, including an identifier, only when said mobile terminal confirms voice communication is determined to not presently be in progress, and that said registration possibility information indicates when it is determined that it is possible to register to said first mobile communication network; and
  - attempting to register said mobile terminal to said first mobile communication network.

20. (Previously Presented) The method of claim 19, further comprising receiving in a management device a notification transmitted by said mobile terminal through said first mobile communication network, and storing in said management device data indicating that said mobile terminal is registered to said first mobile communication network, said mobile terminal being specified by an identifier included in said notification.

21. (Currently Amended) The method of Claim 19 wherein said notification information includes timing information indicative of a maximum number of times registration to said first mobile communication network can be attempted, and attempting to register said mobile terminal to said first mobile communication network comprises the further step of attempting to register only said maximum number of times.

22. (Previously Presented) The method of Claim 19, wherein said mobile terminal is operable to communicate voice communication or data communication, and attempting to register said mobile terminal to said first mobile communication network comprises attempting to register for voice communication; and engaging in a data communication over said second mobile communication network.

23. (Previously Presented) The method of Claim 19, further comprising registering to said first mobile communication network only when a user of said mobile terminal is an authorized user.

24. (Previously Presented) The method of Claim 19, wherein said notification information comprises a limitation of registration to said first mobile communication network to only one of voice communication or data communication.

25. (Currently Amended) The method of Claim 19, wherein determining in said mobile terminal if said mobile terminal has changed monitoring with said mobile terminal for said mobile terminal to change location comprises determining if monitoring for said mobile terminal has moved to move from one registration area to another registration area.

26. (Currently Amended) The method of Claim 19, wherein determining in said mobile terminal if said mobile terminal has changed monitoring with said mobile terminal for said mobile terminal to change location comprises determining if monitoring for said mobile terminal has moved to move from one radio area to another radio area.

27. (Currently Amended) The method of Claim 19, wherein determining in said mobile terminal if said mobile terminal has changed monitoring with said mobile terminal for said mobile terminal to change location comprises determining if monitoring for said mobile terminal has moved to move from one sector to another sector within a radio area.

28. (New) The mobile terminal according to Claim 5, wherein said control unit is operable to attempt to register to said first mobile communication network by generation and transmittal via said communication unit of a location registration message for receipt by a location management device.

29. (New) The mobile terminal according to Claim 28, wherein said control unit is further operable, in response to a successful attempt to register to said first mobile communication network, to generate and transmit, via said communication unit, a notification to activate said first mobile communication network.

30. (New) The communication system of claim 5, wherein said registration possibility information is transmitted from a base station included in said second mobile communication network, and an interval of time between transmission of said registration possibility information by said second mobile communication network is adjustable in accordance with a distance of said base station from a center of said first mobile communication network.

31. (New) The communication system of claim 14, wherein said notification and said location information are different transmissions from said mobile terminal.

32. (New) The method of claim 19, wherein receiving registration possibility information from said second mobile communication network comprises adjusting an interval of

time between transmission of said registration possibility information by a base station included in said second mobile communication network in accordance with a distance of said base station from a center of said first mobile communication network.

33. (New) A location registration changing method comprising:

registering a mobile terminal with a second mobile communication network in response to registration with a first mobile communication network being unavailable;

receiving, with said mobile terminal over said second mobile communication network, registration possibility information that includes an indication of whether registration to said first mobile communication network is possible;

said mobile terminal sensing a change in location of said mobile terminal;

said mobile terminal, responsive to said change in location, checking said registration possibility information to confirm registration to said first mobile communication network is available; and

said mobile terminal attempting to register said mobile terminal to said first mobile communication network in response to confirmation by said mobile terminal that said registration possibility information indicates registration to said first mobile communication network is available.

34. (New) The method of claim 33, wherein said mobile terminal attempting to register said mobile terminal comprises said mobile terminal transmitting a location registration message over said first mobile communication network to a location management device in said first mobile communication network to register in said first mobile communication network, and said mobile terminal transmitting a notification message to a management device in communication with both said first mobile communication network and said second mobile communication network, said notification message indicative that registration has been successfully changed to said first mobile communication network.

35. (New) The method of claim 34, wherein transmitting a location registration message comprises transmitting a mobile terminal identifier and location information of said mobile terminal to said location management device, and transmitting a notification message

comprises transmitting a terminal identifier of said mobile terminal and a control code to activate said first mobile communication network.

36. (New) The method of claim 33, wherein registering to the second mobile communication network comprises registering to a second generation mobile communication network, and attempting to register comprises attempting to register to a third generation mobile communication network.

37. (New) The method of claim 33, wherein receiving, with said mobile terminal over said second mobile communication network, registration possibility information comprises storing said registration possibility information in a memory included in said mobile terminal, and checking said registration possibility information comprises accessing said stored registration possibility information in said memory.

38. (New) The method of claim 33, wherein registering a mobile terminal with a second mobile communication network in response to registration with a first mobile communication network being unavailable comprises first attempting to register with said first mobile communication network and then registering with said second mobile communication network.